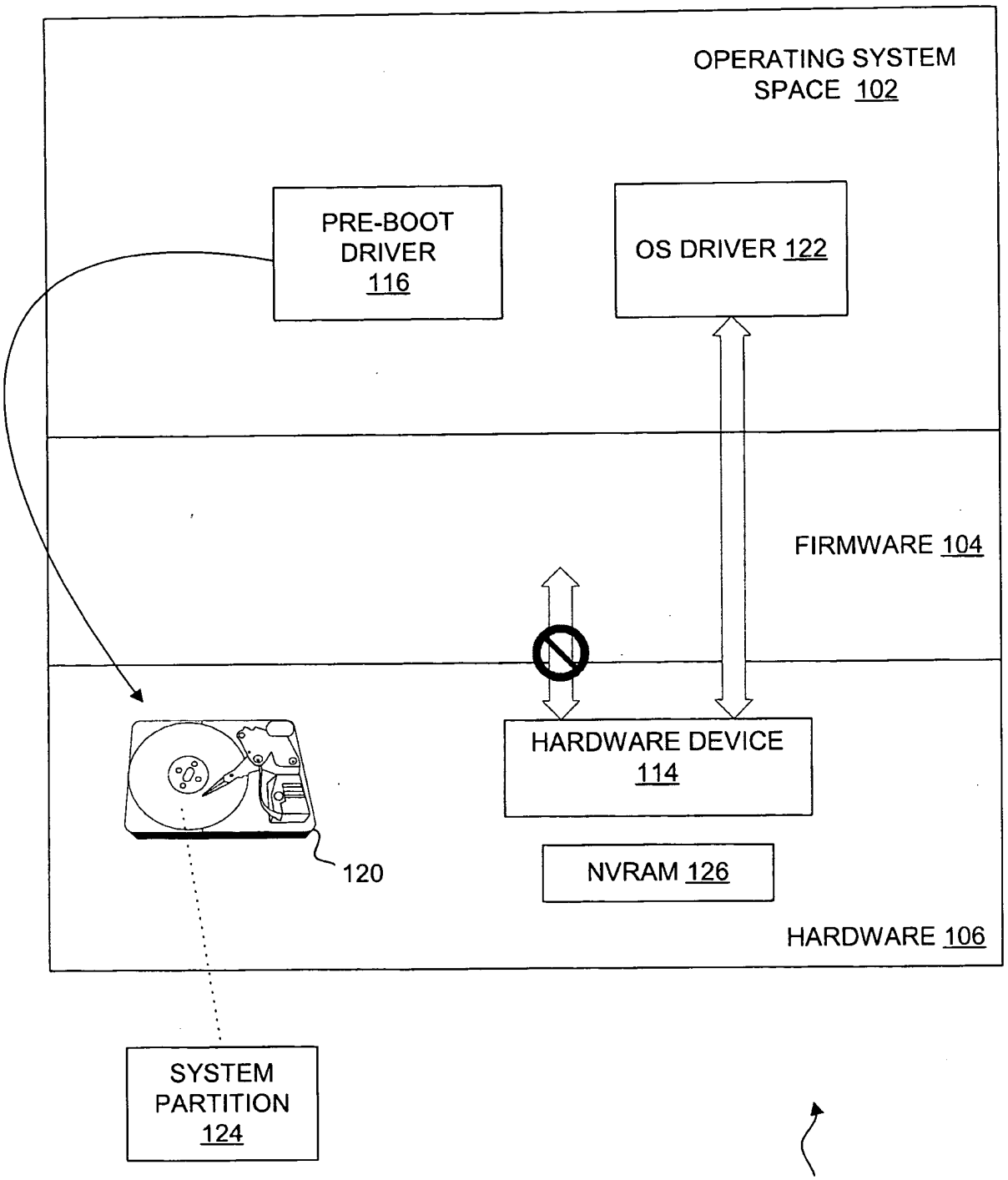
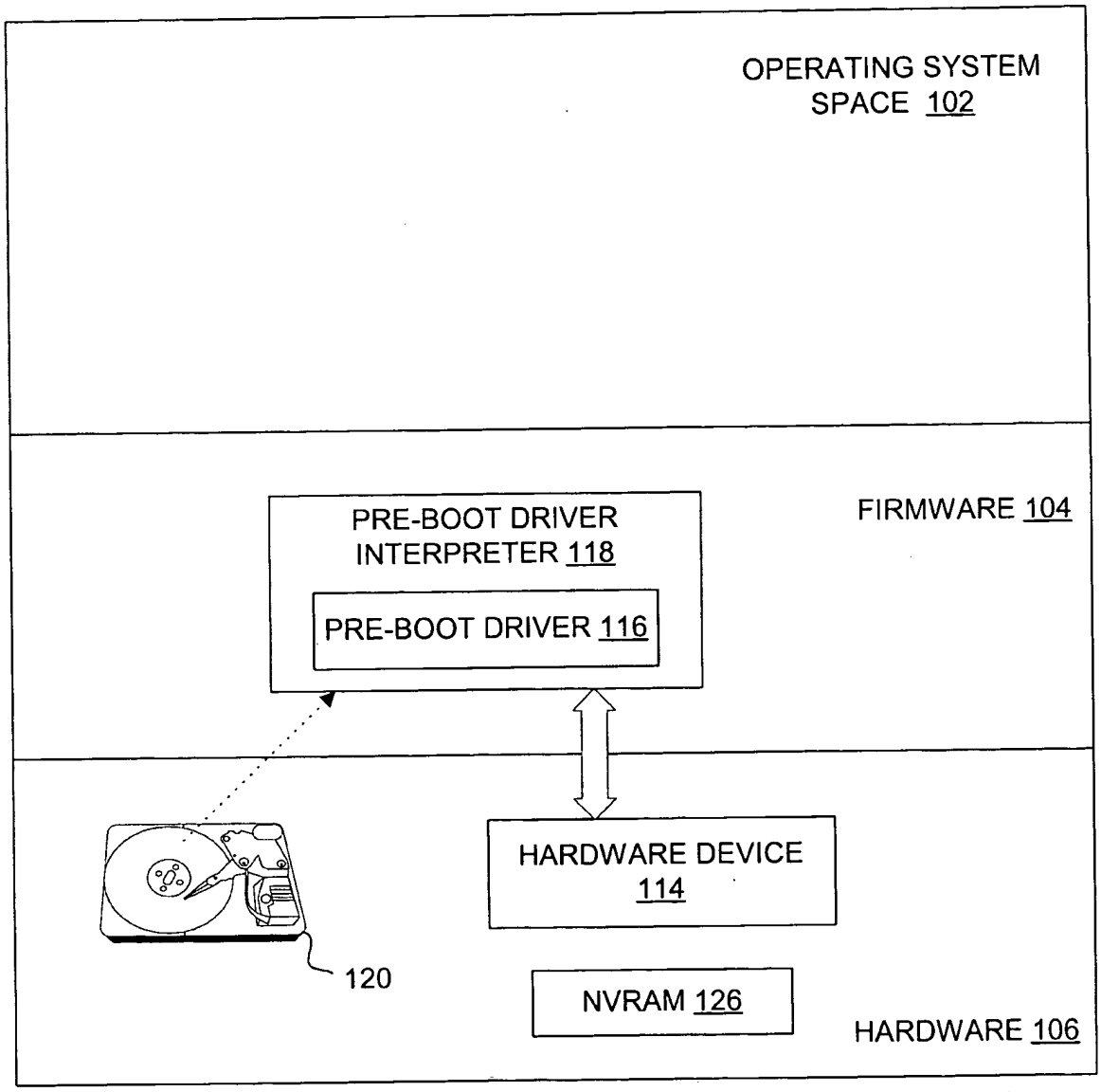

OPERATING SYSTEM SPACE 102
PRE-BOOT DRIVER 116
OS DRIVER 122
FIRMWARE 104
HARDWARE DEVICE 114
NVRAM 126
HARDWARE 106
120
SYSTEM PARTITION 124
100
COMPUTER SYSTEM AT OS RUNTIME

Fig. 1A



COMPUTER SYSTEM RESET AND IN PRE-BOOT PHASE

100

Fig. 1B

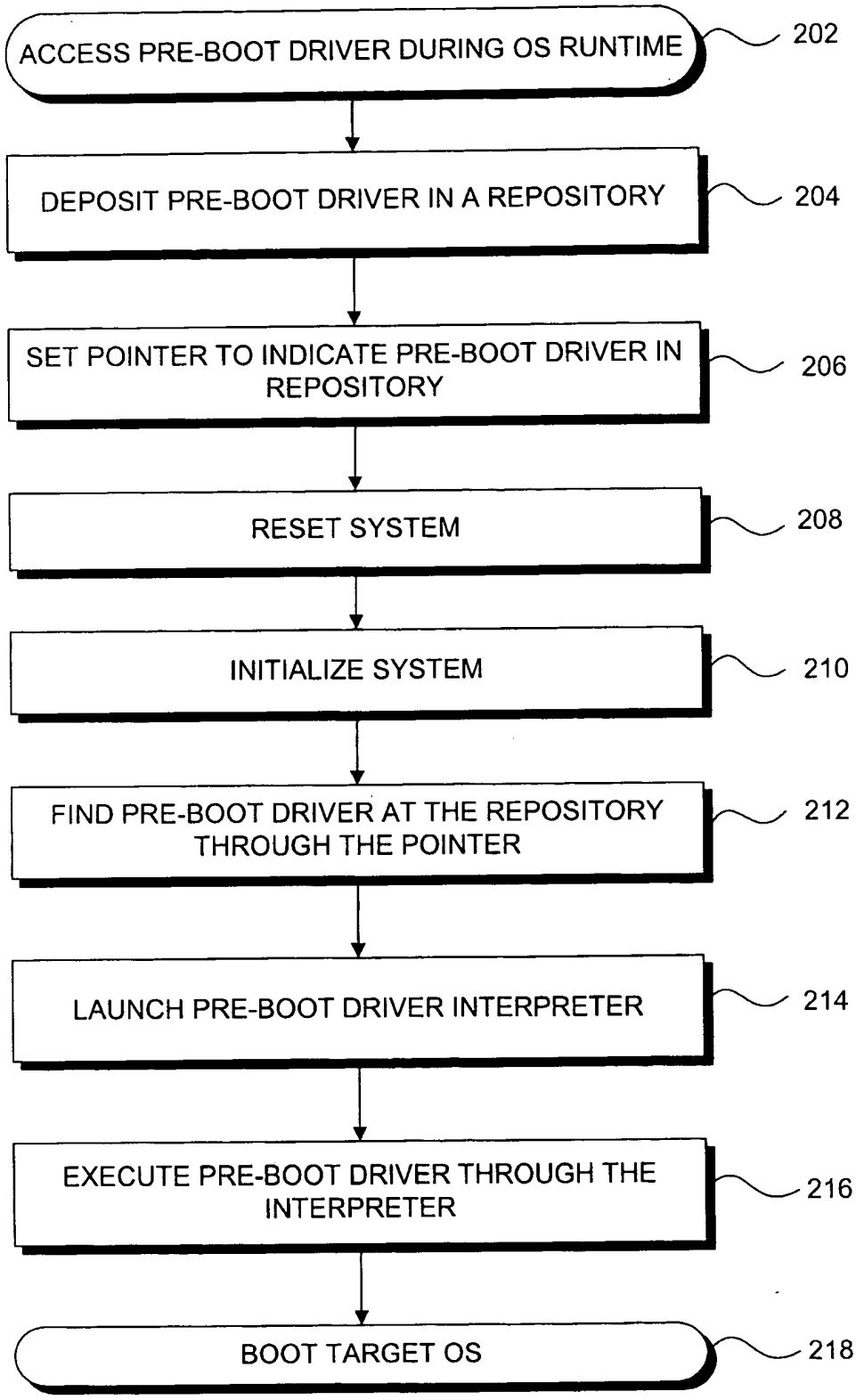

ACCESS PRE-BOOT DRIVER DURING OS RUNTIME
202
DEPOSIT PRE-BOOT DRIVER IN A REPOSITORY
204
SET POINTER TO INDICATE PRE-BOOT DRIVER IN REPOSITORY
206
RESET SYSTEM
208
INITIALIZE SYSTEM
210
FIND PRE-BOOT DRIVER AT THE REPOSITORY THROUGH THE POINTER
212
LAUNCH PRE-BOOT DRIVER INTERPRETER
214
EXECUTE PRE-BOOT DRIVER THROUGH THE INTERPRETER
216
BOOT TARGET OS
218
200

Fig. 2

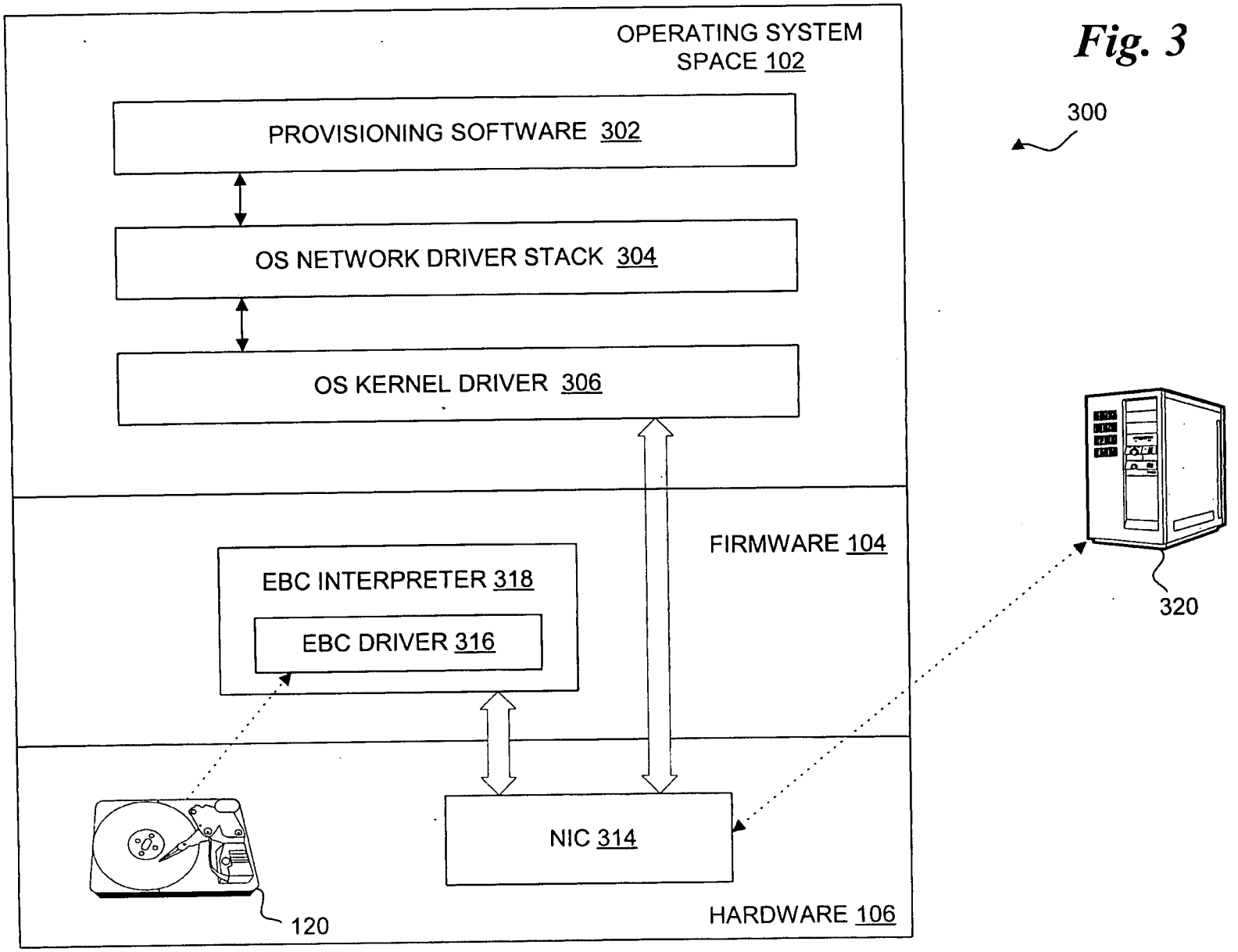

OPERATING SYSTEM SPACE 102
PROVISIONING SOFTWARE 302
OS NETWORK DRIVER STACK 304
OS KERNEL DRIVER 306
FIRMWARE 104
EBC INTERPRETER 318
EBC DRIVER 316
NIC 314
HARDWARE 106
120
300
320

Fig. 3

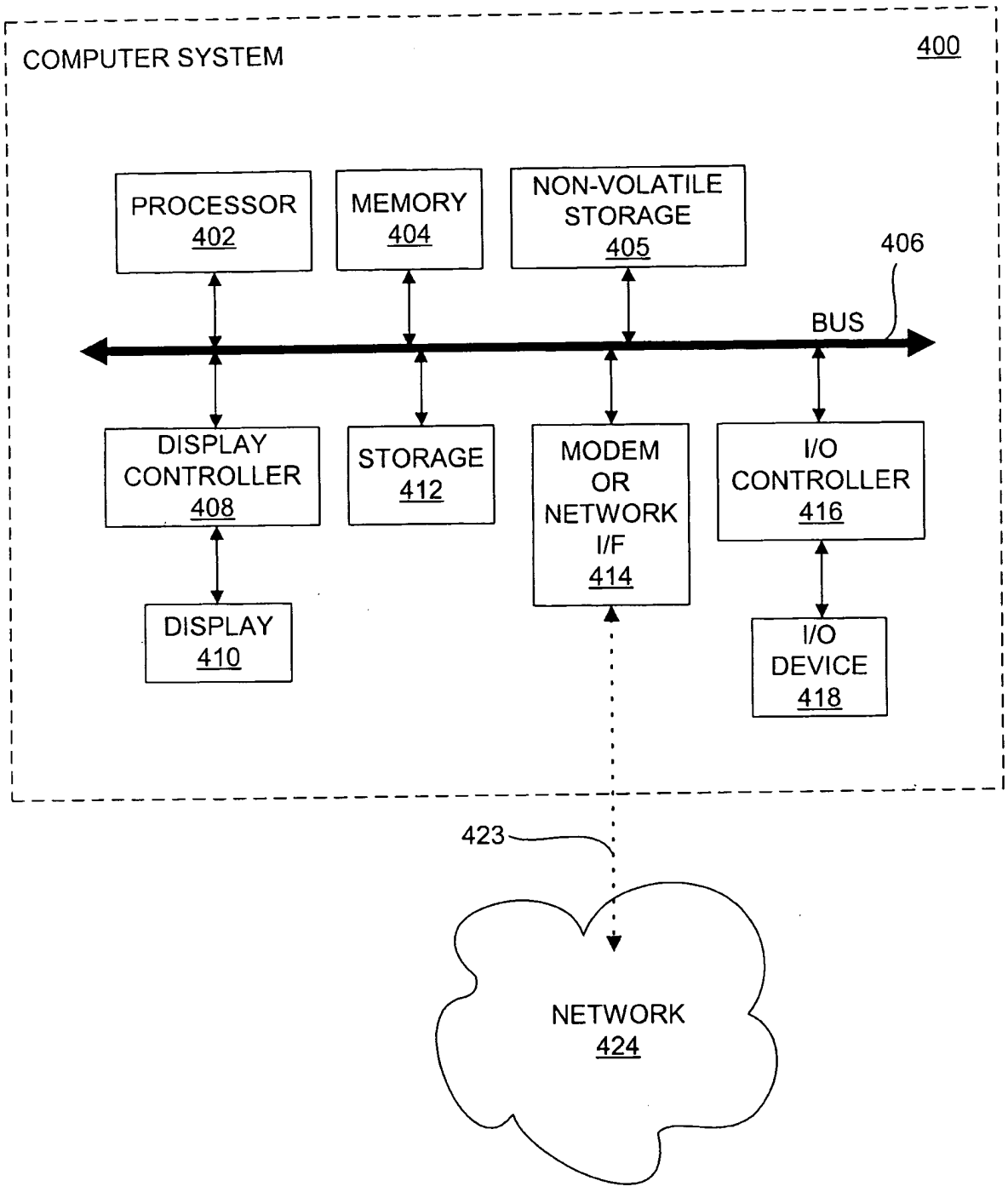

COMPUTER SYSTEM
400
PROCESSOR
402
MEMORY
404
NON-VOLATILE
STORAGE
405
406
BUS
DISPLAY
CONTROLLER
408
STORAGE
412
MODEM
OR
NETWORK
I/F
414
I/O
CONTROLLER
416
DISPLAY
410
I/O
DEVICE
418
423
NETWORK
424

Fig. 4